

Recovery Plan Action Status

Plan Name: Delhi Sands Flower-Loving Fly (*Rhaphiomidas terminatus abdominalis*) Recovery Plan

Plan Status: Final

Plan Date: 14-Sep-97

Lead Agency: USFWS

Lead Office: Carlsbad Fish And Wildlife Office

(Office)
(431-9440)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.1	Map habitat area	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service	Research: Habitat Status	Contract	
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.2	Determine willing landowners	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service	Acquisition: General	Contract	
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.3	Select habitat areas, including release areas	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Planning	Internal Technical Assistance	
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.41	Protect habitats by employing the Habitat Conservation Plan (HCP) process	Ongoing Current	FY 1995 - FY 1999		Riverside County, California, Rhapsody in Green, San Bernardino County, California, U.S. Fish and Wildlife Service	Management: General	Contract	
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.42	Seek habitat conservation through non-HCP means	Ongoing Current	FY 2000 - FY 2004		Riverside County, California, Rhapsody in Green, San Bernardino County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: General	Contract	
Delhi Sands flower-loving fly (<i>Rhaphiomidas terminatus abdominalis</i>)	1	1.43	Identify funding sources for land acquisition	Ongoing Current	FY 1995 - FY 1999		Riverside County, California, San Bernardino County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition: General	Contract	

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Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	1.5	Develop management plans for all 3 RU's	Obsolete			U.S. Fish and Wildlife Service, California Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	1.6.1	Enhance occupied sites (vegetation removal)	Ongoing Current	FY 2005		U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	1.6.2	Restore presently unoccupied sites	Ongoing Not Current	FY 2007		To be determined	Management: Habitat Maintenance and Manipulation	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	1.6.3	Determine effects of management on non-target species	Not Started			U.S. Fish and Wildlife Service	Research: General	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.1.1	Determine ecological requirements for Delhi Sands flower-loving fly	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service	Research: Habitat Requirements	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.1.2	Determine larval food sources and their distribution	Partially Complete	FY 2008		U.S. Fish and Wildlife Service	Research: Dietary Studies	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.1.3	Determine dispersal patterns and dispersal habitat characteristics of the Delhi Sands flower-loving fly	Not Started			U.S. Fish and Wildlife Service	Research	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.2.1	Develop captive rearing techniques	Not Started			U.S. Fish and Wildlife Service	Research: Propagation	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.2.2	Determine methods for the release of captive propagated animals	Not Started			U.S. Fish and Wildlife Service	Research: Reintroduction	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.3.1	Implement captive rearing program	Not Started			U.S. Fish and Wildlife Service	Management: Propagation	Contract	

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Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	2.3.2	Implement release program	Not Started			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	2	3.1	Develop populations and habitat monitoring guidelines	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	2	3.2	Develop individual monitoring programs	Ongoing Current	FY 2006		U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Internal Technical Assistance	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	2	3.3	Implement monitoring programs for each RU	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Population Monitoring	Contract	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	4.1	Establish landowner committees	Not Started			Riverside County, California, San Bernardino County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Administration	Internal Administrative	
Delhi Sands flower-loving fly (Rhaphiomidas terminatus abdominalis)	1	4.2	Conduct public outreach	Not Started			Rhapsody in Green, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	